



CONDUIT AND CABLE SCHEDULE - STAGE II & III SWITCHGEAR CONTROL & INDICATION						
CKT. DESIG.	FROM	TO	SERVICE	CDT.	WIRE	
SWITCHGEAR - LOCAL CONTROL CABINET						
LC-1	LOCAL CONTR. CAB.	SWGR. HV-B1	CONTROL	3/4"	1-12/C #14	
LC-2	LOCAL CONTR. CAB.	SWGR. HV-B2	CONTROL	3/4"	1-12/C #14	
LC-3	LOCAL CONTR. CAB.	SWGR. HV-B3	CONTROL	3/4"	1-12/C #14	
LC-4	LOCAL CONTR. CAB.	SWGR. HV-B4	CONTROL	3/4"	1-12/C #14	
SWITCHGEAR - INTERLOCKING BKRS. HV-B, N, & T						
I-1	SWGR. BKR. T1-3	BKR. HV-B1	240V. A.C.	1 1/2"	1-19C #14	
I-2	SWGR. BKR. T1-2	BKR. HV-B2	240V. A.C.	1 1/2"	1-19C #14	
I-3	SWGR. BKR. T3-4	BKR. HV-B3	240V. A.C.	1 1/2"	1-19C #14	
I-4	SWGR. BKR. T2-4	BKR. HV-B4	240V. A.C.	1 1/2"	1-19C #14	
I-1-2	SWGR. BKR. T1-3	BKR. T1-4	240V. A.C.	1 1/2"	1-19C #14 & 3-1/C #14	
I-3-4	SWGR. BKR. T2-4	BKR. T3-4	240V. A.C.	1 1/2"	1-19C #14 & 3-1/C #14	
REMOTE INDICATION						
II-1	TRANS'F. TR-1	BKR. N-1	DIP N-1	3/4"	8 #14	
II-2	TRANS'F. TR-2	BKR. N-2	DIP N-2	3/4"	8 #14	
II-3	TRANS'F. TR-3	BKR. N-3	DIP N-3	3/4"	8 #14	
II-4	TRANS'F. TR-4	BKR. N-4	DIP N-4	3/4"	8 #14	
UPS-1	U.P.S. 75E	CB-R1	DIP R-1	3/4"	4 #14	
LC-1	LOCAL CONTROL CAB.	CB-L3	DIP L-3	3/4"	2 #14	
DIGITAL INSTRUMENT PACKAGE (DIP)						
S-1	NOTE: FOR CONNECTION SEE DWG. E-103 SCADA COMMUNICATIONS WIRING DIAGRAM			3/4"	1-2pr TW SH	
S-2				3/4"	2-2pr TW SH	
AUTOMATIC TRANSFER SW. CONTROL CDT.						
C-E	TERM. CAB. #ATS-74B	TERM. CAB. #ATS-75E	120V	1 1/4"	20 #12	
C-13	TERM. CAB. #ATS-75E	ATS 75ER	120V	1"	16 #12	
C-15	TERM. CAB. #ATS-75E	ATS 75EL	120V	1"	16 #12	
C-1E	TERM. CAB. #ATS-75E	EXIST. J.B.	120V	3/4"	4 #12	
C-3E	TERM. CAB. #ATS-75E	CB-R1	120V	3/4"	8 #12	
TENANT METERING						
CT-13	BUS #4	METER	-	3/4"	7 #14	
CT-14	BUS #3	METER	-	3/4"	7 #14	
CT-R16	BUS #3	METER	-	3/4"	7 #14	
CT-R17	BUS #4	METER	-	3/4"	7 #14	
CT-3-3	BUS #3	METER	-	3/4"	7 #14	
DW-T1	METER	J.B.	-	1"	12 #14	
DW-T2	METER	J.B.	-	1"	6 #14	

SEE DWG. #E-102, PANEL SCHEDULE

PANEL CP-75E CONDUIT AND CABLE SCHEDULE				
CKT. DESIGNATION	CKT. No	WIRE No & SIZE	TYPE	CONDUIT SIZE
CP-75E-1	1	2 #12	XHHW-2 GND.	3/4" C.
CP-75E-2	2	2 #12	XHHW-2 GND.	3/4" C.
CP-75E-7	7	2 #10	XHHW-2 GND.	3/4" C.
CP-75E-8	8	2 #10	XHHW-2 GND.	3/4" C.
CP-75E-9	9	2 #10	XHHW-2 GND.	3/4" C.
CP-75E-10	10	2 #10	XHHW-2 GND.	3/4" C.
CP-75E-11	11	2 #10	XHHW-2 GND.	3/4" C.
CP-75E-12	12	2 #10	XHHW-2 GND.	3/4" C.
CP-75E-13	13	2 #10	XHHW-2 GND.	3/4" C.
CP-75E-14	14	2 #10	XHHW-2 GND.	3/4" C.
CP-75E-15	15	2 #10	XHHW-2 GND.	3/4" C.
CP-75E-16	16	2 #10	XHHW-2 GND.	3/4" C.

SEE DWG. #E-89, CONNECTION DIAGRAM

TEMPORARY CONDUIT

DIP INPUT

NOTE:

- THIS DRAWING SHOWS BOTH STAGE II AND III WORK COMBINED. FOR SEPARATION OF WORK SEE NOTE #3 DWG. #E-83.
- FOR WORK IN ELECTRIC CLOSET "C" SEE DRAWING E-84, ONE LINE DIAGRAM
- FOR LOCAL CONTROL CABINET DETAILS SEE DRAWING E-107

I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF ONE OF THE CONTRACT DRAWINGS CONSTITUTING A PART OF CONTRACT NO. WTC-802.071 IN THE FORM IN WHICH SAID DRAWINGS EXISTED AT THE TIME THE SAID CONTRACT WAS EXECUTED BY THE PARTIES.

DATE 6/21/95 *Sullivan A. Aslam*
SPEC. WRITER
DATE 8/15/95 *Peter K. Swearing*
ENGINEER OF DESIGN

**THE PORT AUTHORITY
OF NY & NJ**

Peter K. Swearing
ENGINEERING PROGRAM MANAGER
WORLD TRADE CENTER
CHIEF ELECTRICAL ENGINEER

Engineering Department
Design Divisions

**The World Trade
Center
Electrical/HVAC
Upgrade Program**

**TOWER ONE AND TWO
LOW VOLTAGE
SUBSTATIONS
CONSTRUCTION AND
INSTALLATION**

**ELECTRICAL
SUBSTATION, SS-75E
STAGE II AND III
75th FLOOR PLAN
CONTROL CDT. LAYOUT**

No.	Date	Revision	Approved
1	6/21/95		<i>Sullivan A. Aslam</i>
2	8/15/95		<i>Peter K. Swearing</i>

This drawing subject to conditions of contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent.

LEAHY/ FISCHER	LEAHY	AS
Designed by	Drawn by	Checked by
Date 5-1-95	Scale AS R3000	
Contract Number	Drawing Number	
WTC 802.071	E-87	